

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030618\  
 Data File : BF103450.D  
 Acq On : 6 Mar 2018 12:43  
 Operator : SJ/JU  
 Sample : J1723-17RE  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 06 14:50:27 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 06 11:52:59 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 121338   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 514335   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.91  | 164  | 221024   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.41 | 188  | 331480   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.07 | 240  | 212875   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.58 | 264  | 224117   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.50  | 112 | 790331 | 98.51 | ng | 0.00 |
| 7) Phenol-d6                | 6.51  | 99  | 978236 | 99.65 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.44  | 82  | 609542 | 67.68 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.71 | 330 | 145494 | 77.77 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.23  | 172 | 849755 | 62.01 | ng | 0.00 |
| 78) Terphenyl-d14           | 12.99 | 244 | 556120 | 62.80 | ng | 0.00 |

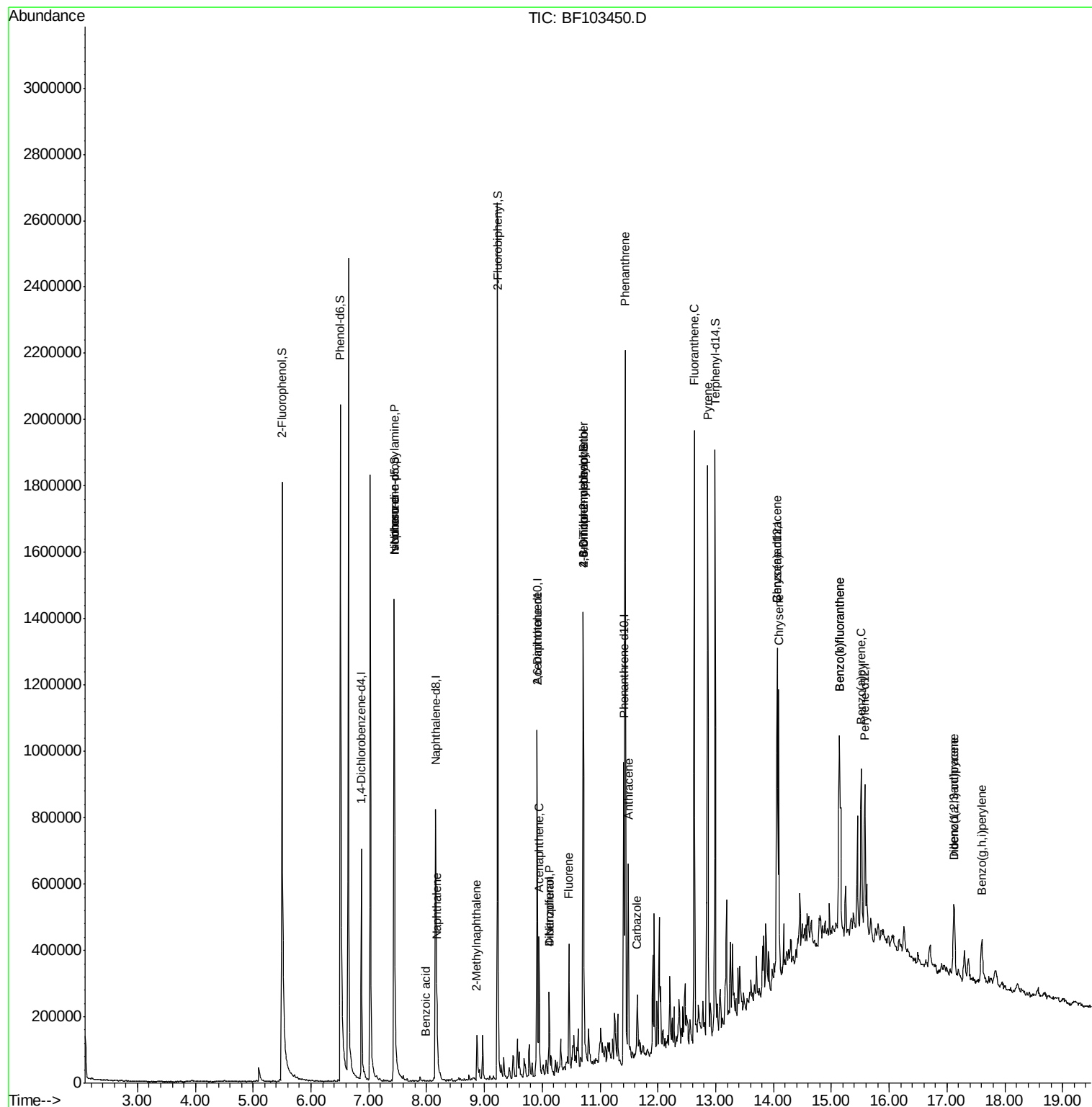
|                                |       |     |        |           |    |     |
|--------------------------------|-------|-----|--------|-----------|----|-----|
| Target Compounds               |       |     |        | Qvalue    |    |     |
| 9) Benzaldehyde                | 6.47  | 77  | 844    | Below Cal | #  | 1   |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70  | 76802  | 12.570    | ng | 81  |
| 25) Isophorone                 | 7.44  | 82  | 609542 | 34.364    | ng | 64  |
| 31) Naphthalene                | 8.17  | 128 | 105511 | 4.190     | ng | 98  |
| 32) Benzoic acid               | 8.00  | 122 | 111    | 6.932     | ng | 33  |
| 37) 2-Methylnaphthalene        | 8.87  | 142 | 51761  | 3.181     | ng | 100 |
| 50) 2,6-Dinitrotoluene         | 9.91  | 165 | 30588  | 8.221     | ng | 26  |
| 51) Acenaphthene               | 9.95  | 154 | 82490  | 6.275     | ng | 99  |
| 54) Dibenzofuran               | 10.12 | 168 | 99382  | 5.507     | ng | 98  |
| 55) 4-Nitrophenol              | 10.12 | 139 | 40905  | 13.981    | ng | 11  |
| 57) Fluorene                   | 10.46 | 166 | 107725 | 7.008     | ng | 98  |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198 | 236    | 5.050     | ng | 1   |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248 | 9776   | 2.831     | ng | 1   |
| 70) Phenanthrene               | 11.43 | 178 | 778977 | 42.702    | ng | 99  |
| 71) Anthracene                 | 11.49 | 178 | 242953 | 12.988    | ng | 99  |
| 72) Carbazole                  | 11.64 | 167 | 70247  | 3.771     | ng | 99  |
| 74) Fluoranthene               | 12.63 | 202 | 785799 | 42.866    | ng | 98  |
| 77) Pyrene                     | 12.86 | 202 | 697022 | 41.997    | ng | 99  |
| 80) Benzo(a)anthracene         | 14.06 | 228 | 369059 | 26.720    | ng | 99  |
| 82) Chrysene                   | 14.09 | 228 | 304345 | 22.693    | ng | 98  |
| 85) Indeno(1,2,3-cd)pyrene     | 17.13 | 276 | 129823 | 12.227    | ng | 97  |
| 87) Benzo(b)fluoranthene       | 15.14 | 252 | 507711 | 34.455    | ng | 95  |
| 88) Benzo(k)fluoranthene       | 15.14 | 252 | 507711 | 36.590    | ng | 98  |
| 89) Benzo(a)pyrene             | 15.52 | 252 | 274418 | 20.854    | ng | 91  |
| 90) Dibenzo(a,h)anthracene     | 17.12 | 278 | 35000  | 3.442     | ng | 82  |
| 91) Benzo(g,h,i)perylene       | 17.60 | 276 | 114496 | 11.522    | ng | 93  |

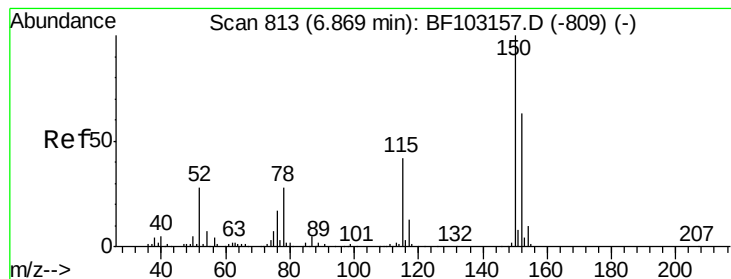
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030618\  
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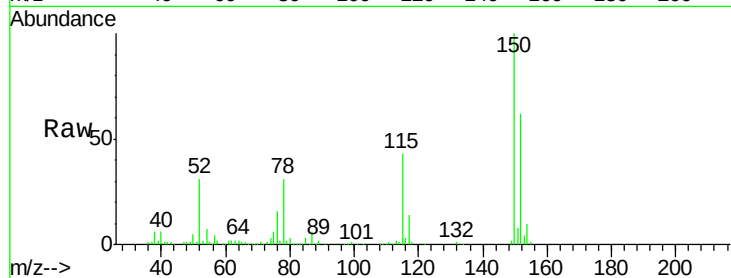


#1

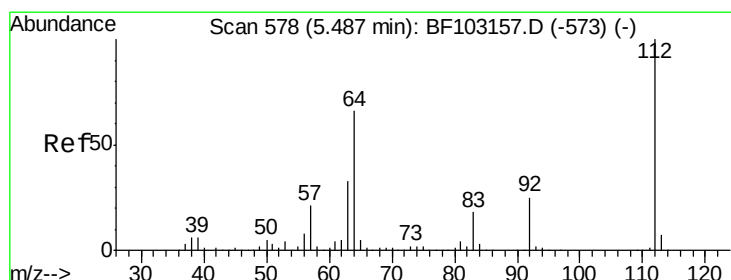
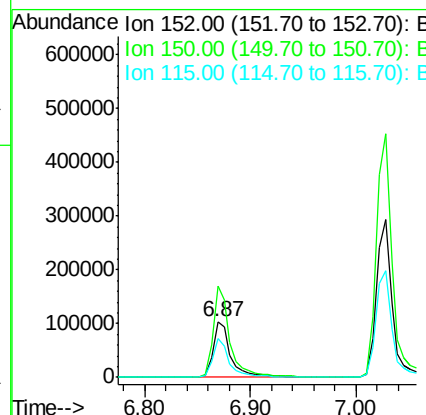
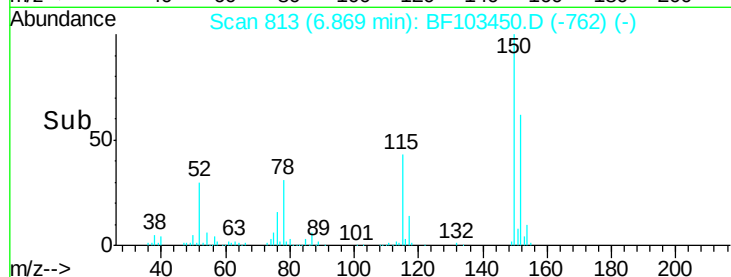
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.00 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 121338  
Ion Ratio Lower Upper  
152 100  
150 162.4 124.6 186.8  
115 69.4 50.1 75.1



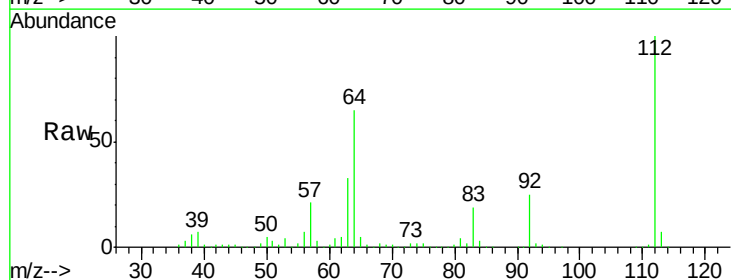
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



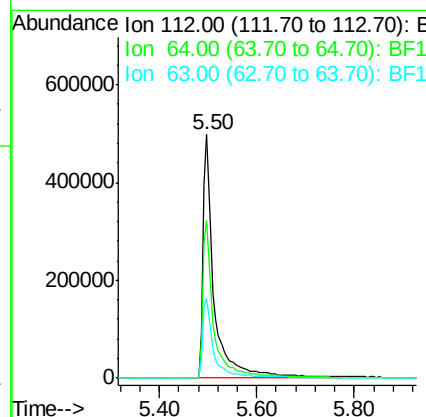
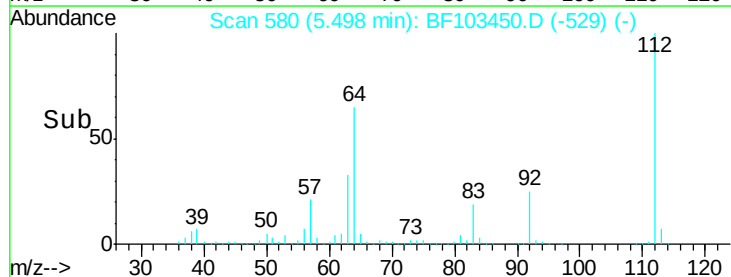
#5

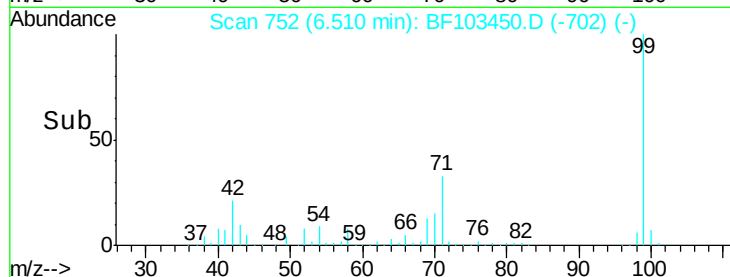
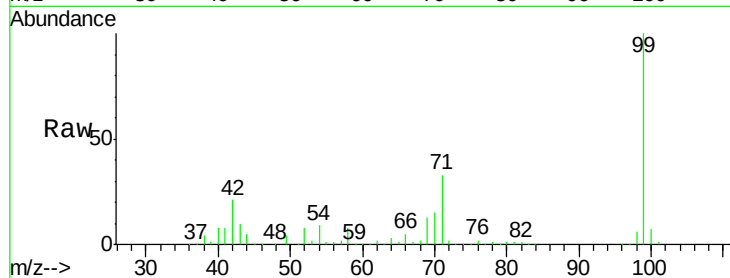
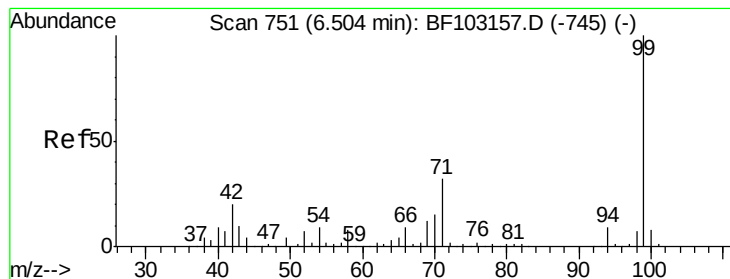
2-Fluorophenol  
Concen: 98.512 ng  
RT: 5.50 min Scan# 580  
Delta R.T. -0.00 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

Tgt Ion:112 Resp: 790331  
Ion Ratio Lower Upper  
112 100  
64 65.0 47.9 71.9  
63 33.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 99.647 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

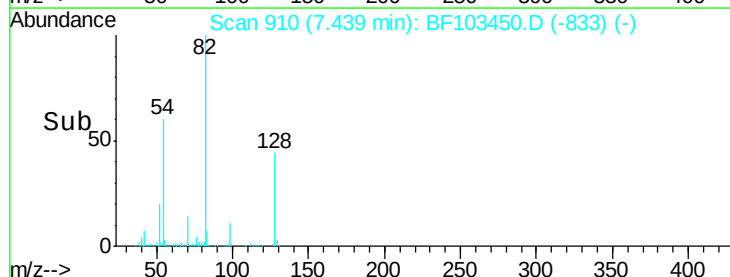
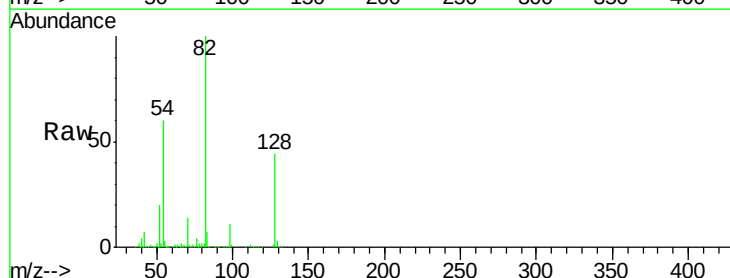
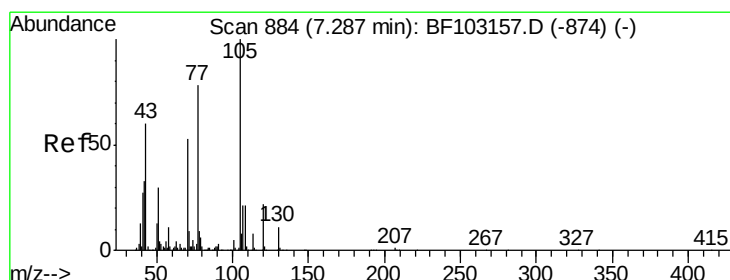
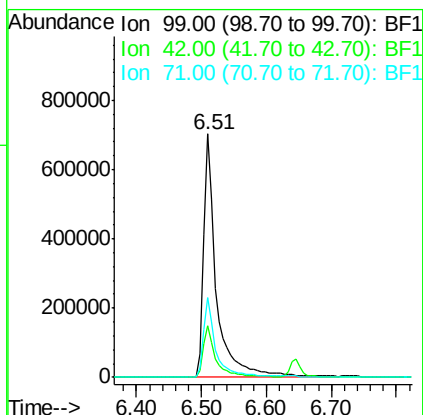
Tot Ion: 99 Resp: 978236

Ion Ratio Lower Upper

99 100

42 21.0 14.5 21.7

71 32.6 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 12.570 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Tgt Ion: 70 Resp: 76802

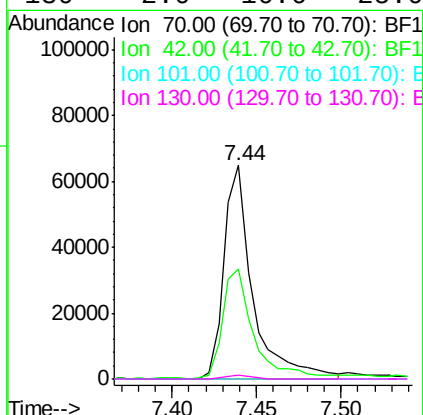
Ion Ratio Lower Upper

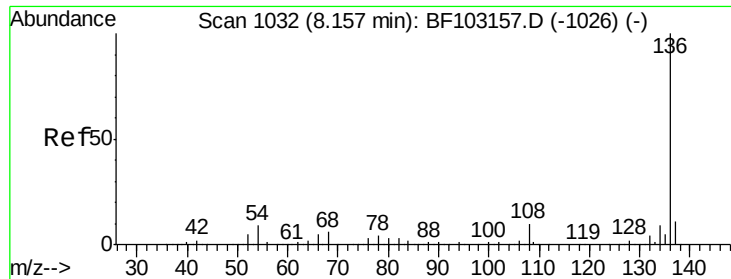
70 100

42 51.5 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 514335

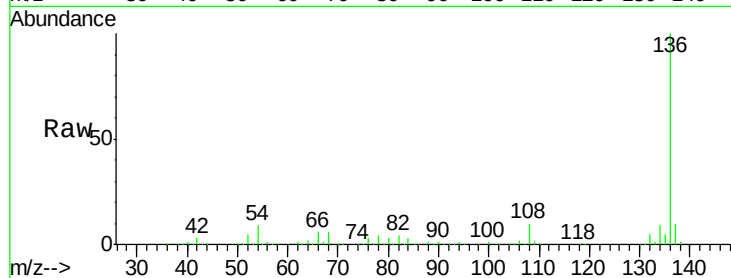
Ion Ratio Lower Upper

136 100

137 10.4 8.9 13.3

54 8.9 6.6 9.8

68 6.0 5.0 7.4

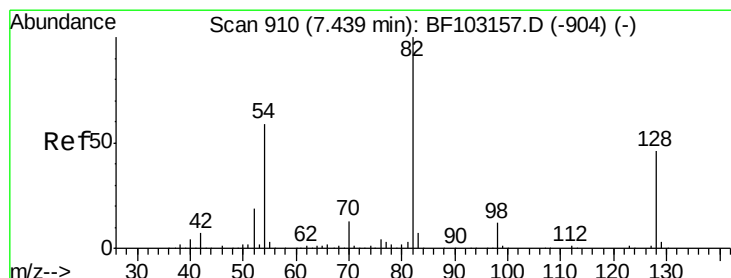
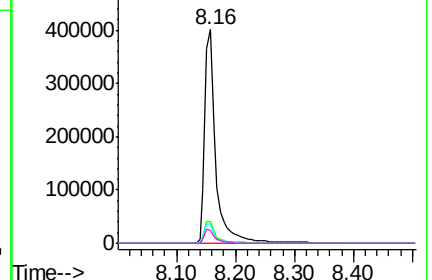
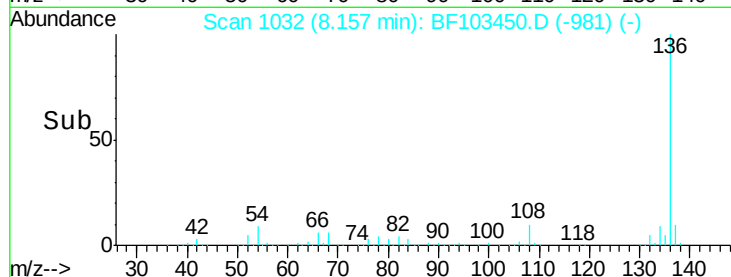


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 67.680 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

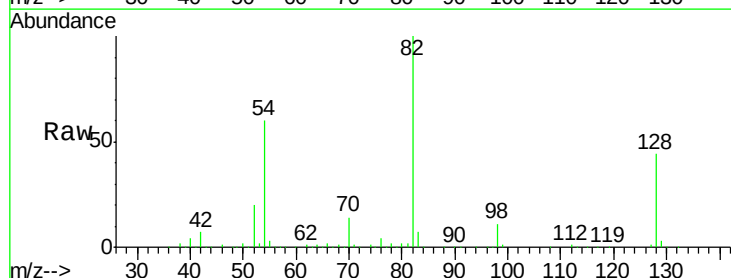
Tgt Ion: 82 Resp: 609542

Ion Ratio Lower Upper

82 100

128 43.6 36.1 54.1

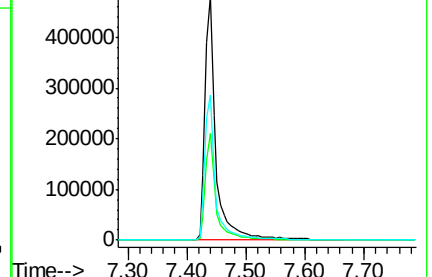
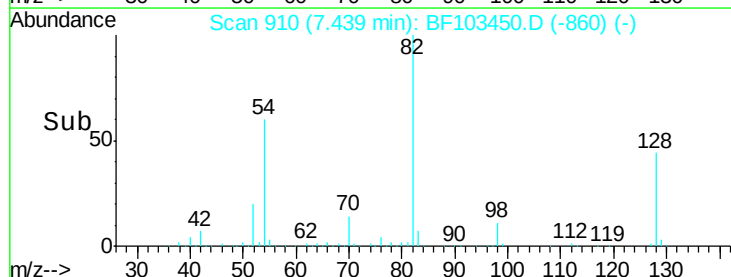
54 59.5 41.4 62.2

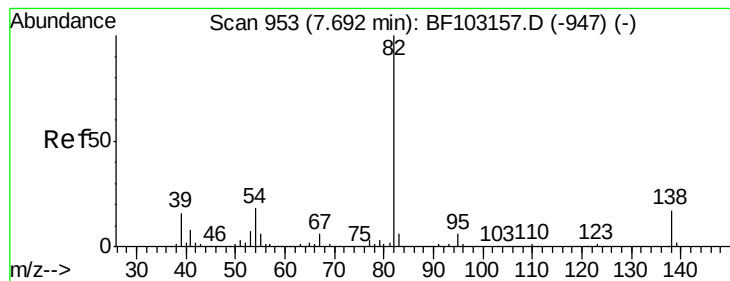


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 34.364 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.25 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

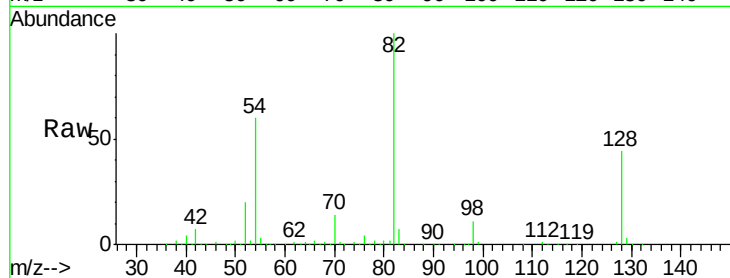
Tot Ion: 82 Resp: 609542

Ion Ratio Lower Upper

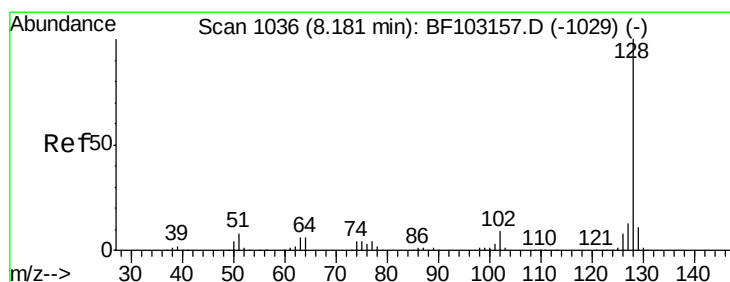
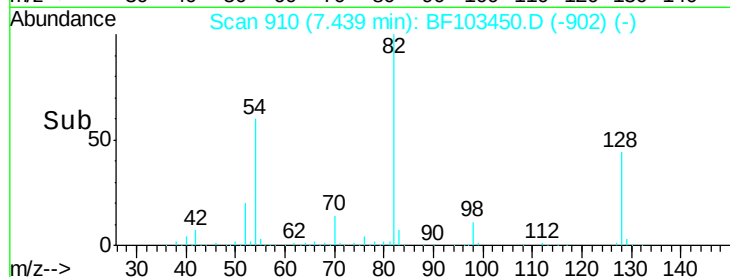
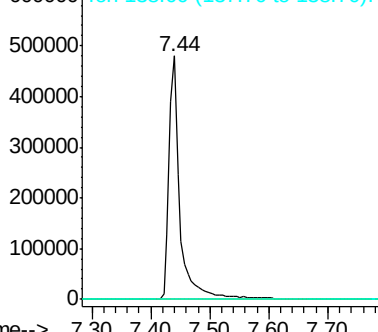
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#31

Naphthalene

Concen: 4.190 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

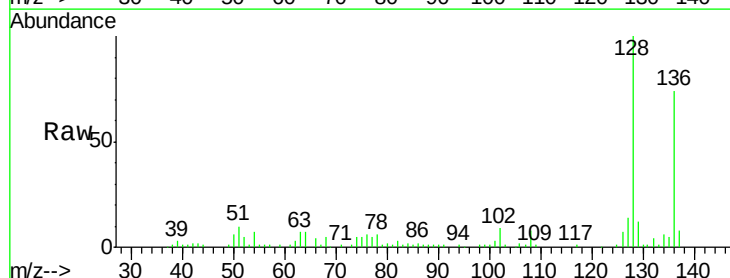
Tgt Ion: 128 Resp: 105511

Ion Ratio Lower Upper

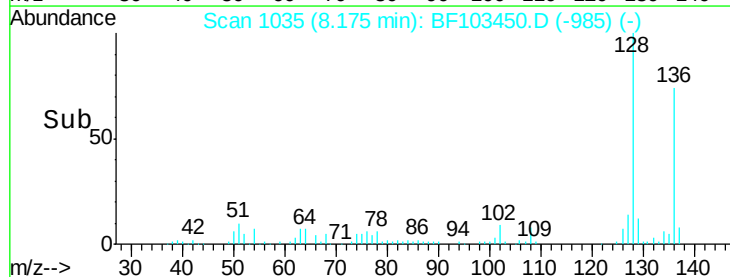
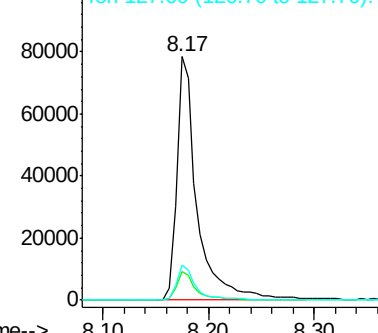
128 100

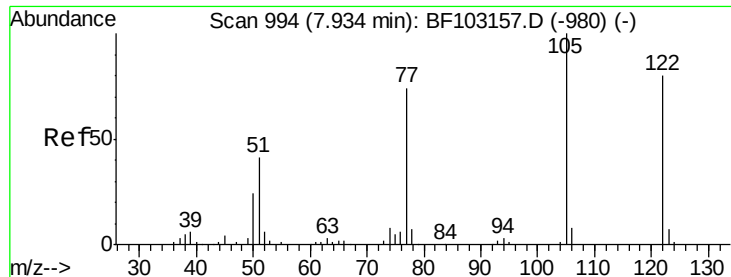
129 11.8 8.8 13.2

127 14.2 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 6.932 ng

RT: 8.00 min Scan# 1005

Delta R.T. 0.04 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

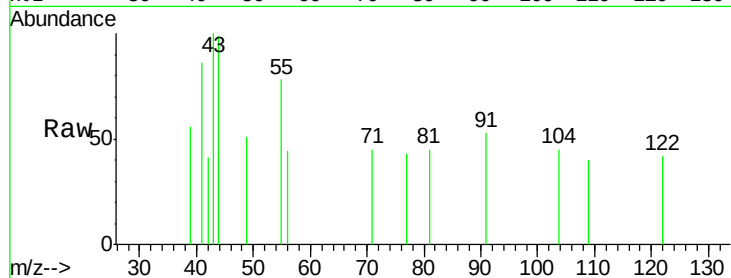
Tot Ion:122 Resp: 111

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

77 101.9 70.7 110.7

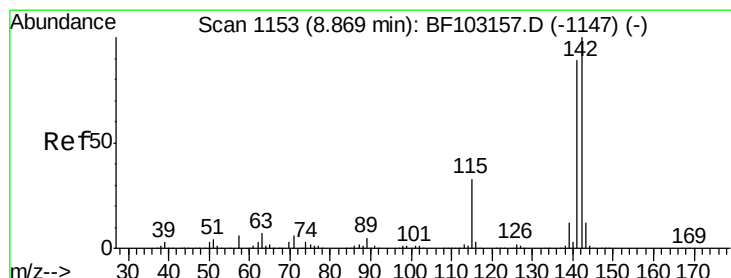
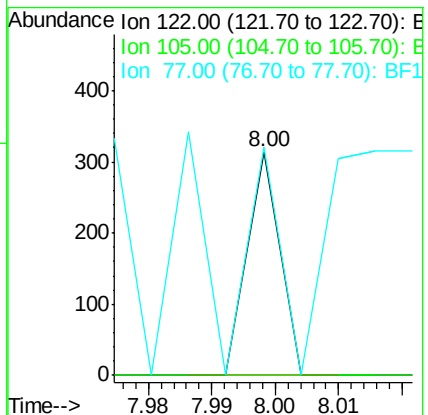
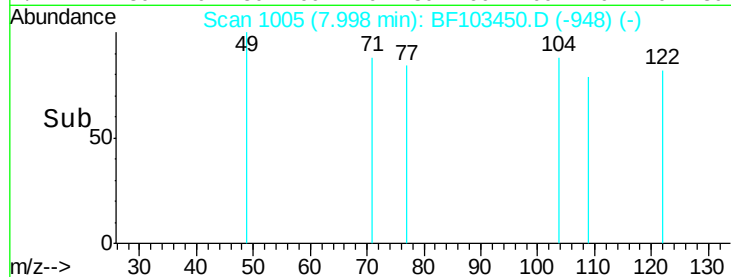


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

Time-->



#37

2-Methylnaphthalene

Concen: 3.181 ng

RT: 8.87 min Scan# 1154

Delta R.T. 0.01 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

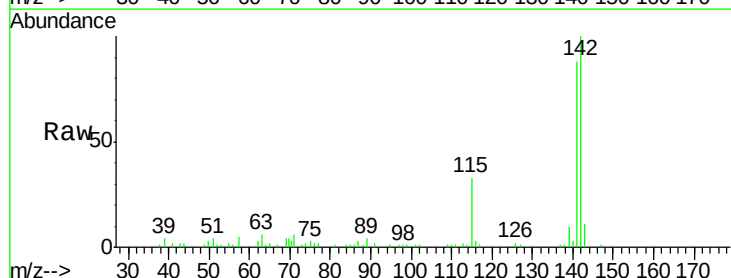
Tgt Ion:142 Resp: 51761

Ion Ratio Lower Upper

142 100

141 88.0 70.8 106.2

115 32.7 26.1 39.1

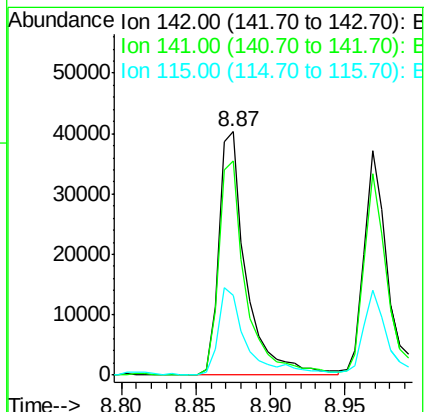
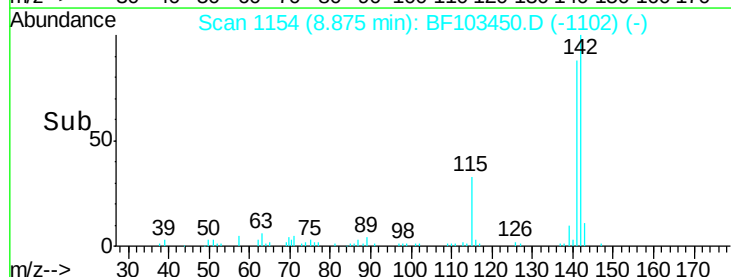


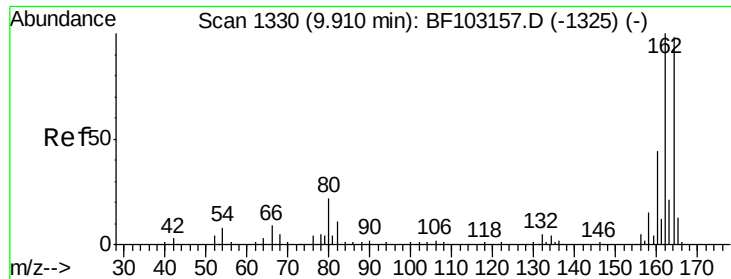
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

Time-->

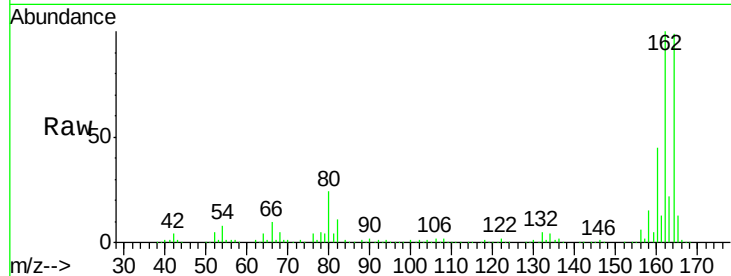




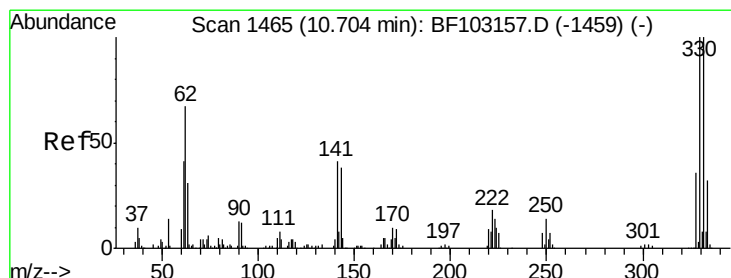
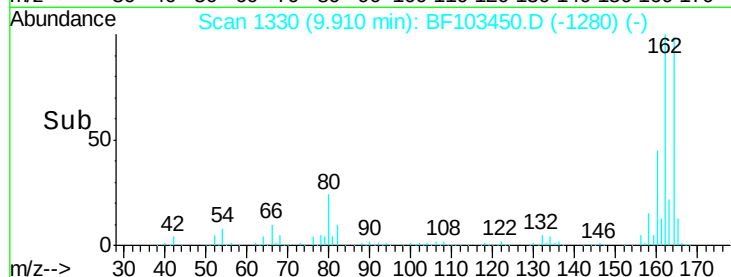
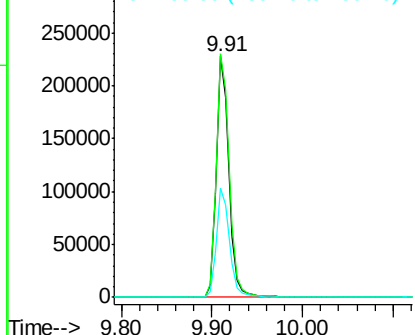
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 221024  
Ion Ratio Lower Upper  
164 100  
162 101.1 86.1 129.1  
160 45.1 38.3 57.5

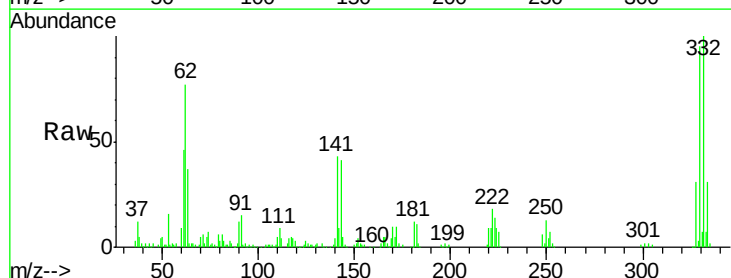


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

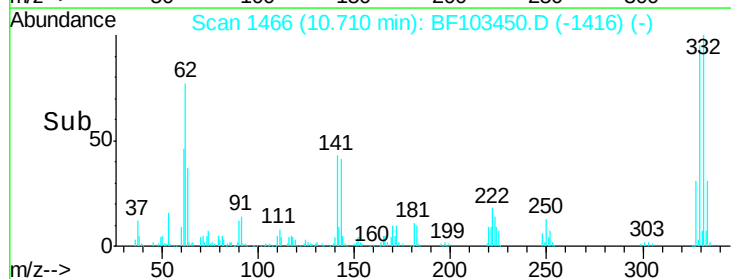
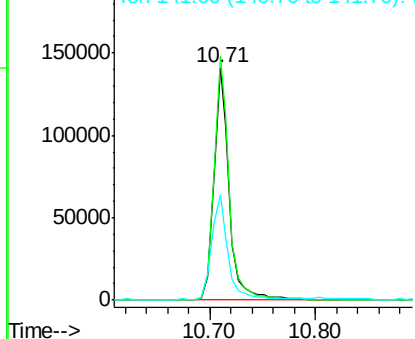


#41  
2,4,6-Tribromophenol  
Concen: 77.769 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.01 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

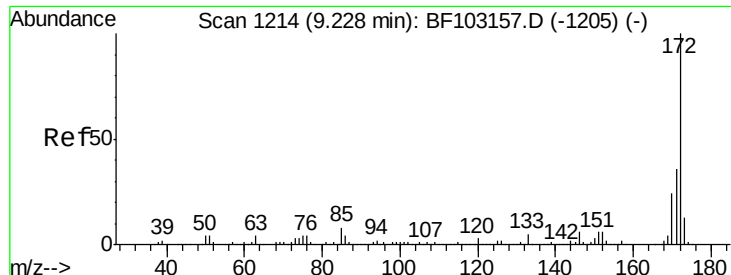
Tgt Ion:330 Resp: 145494  
Ion Ratio Lower Upper  
330 100  
332 104.9 77.0 115.6  
141 47.6 29.9 44.9#



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



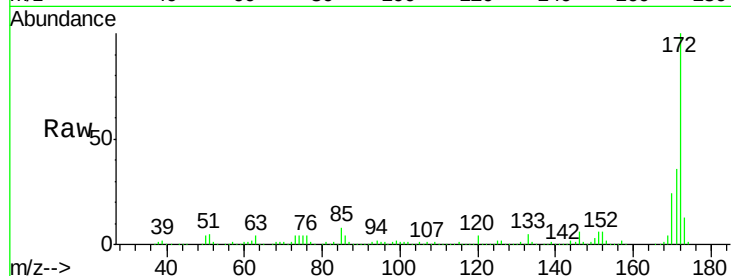




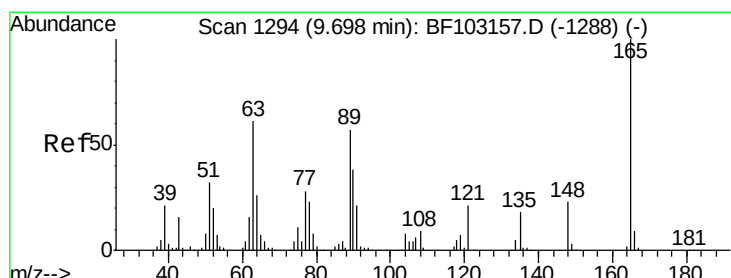
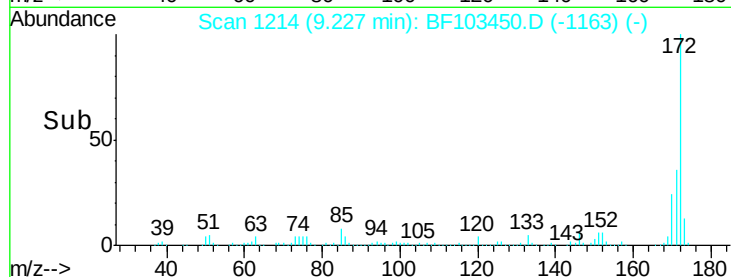
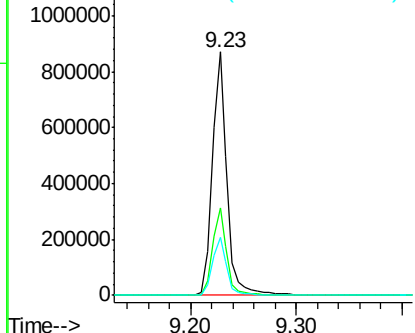
#44  
2-Fluorobiphenyl  
Concen: 62.011 ng  
RT: 9.23 min Scan# 1214  
Delta R.T. -0.00 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 849755  
Ion Ratio Lower Upper  
172 100  
171 35.7 29.7 44.5  
170 23.7 19.6 29.4

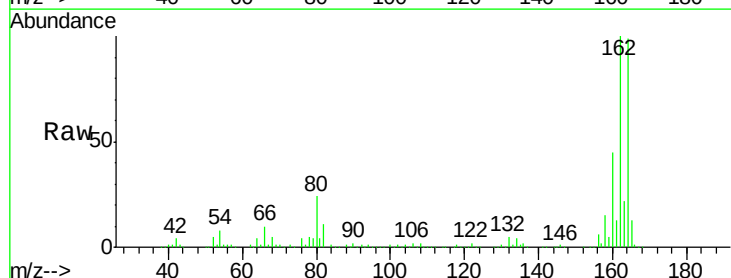


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

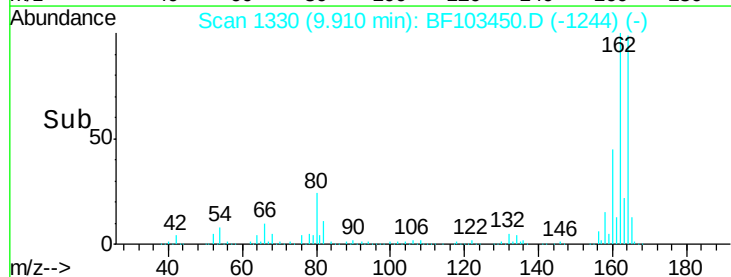
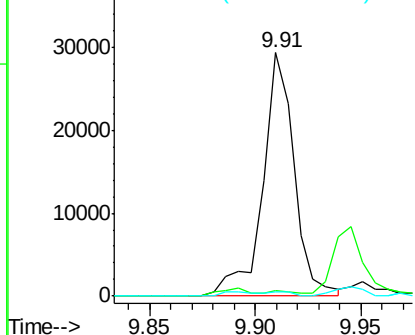


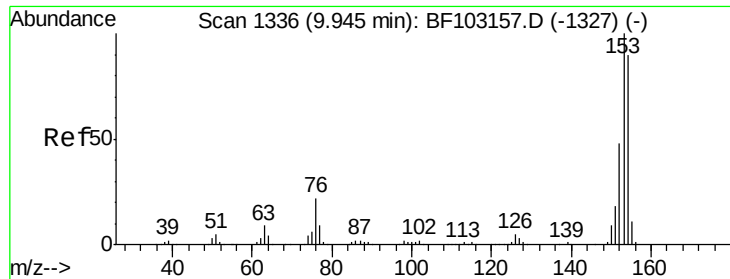
#50  
2,6-Dinitrotoluene  
Concen: 8.221 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. 0.21 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

Tgt Ion:165 Resp: 30588  
Ion Ratio Lower Upper  
165 100  
63 2.3 44.7 67.1#  
89 1.9 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 6.275 ng

RT: 9.95 min Scan# 1336

Delta R.T. -0.01 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

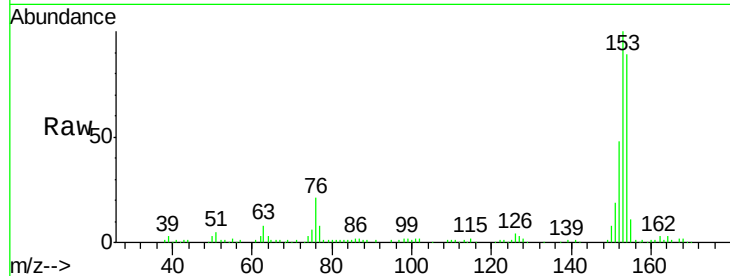
Tot Ion:154 Resp: 82490

Ion Ratio Lower Upper

154 100

153 112.8 91.2 136.8

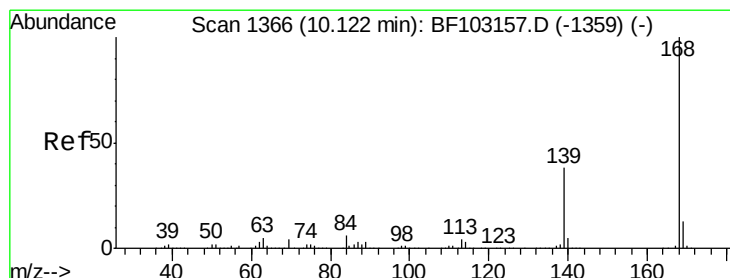
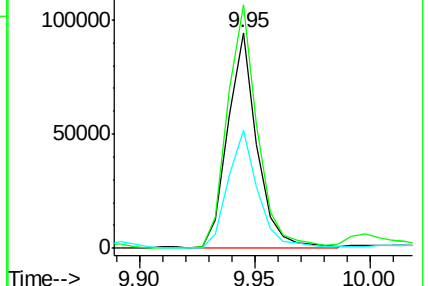
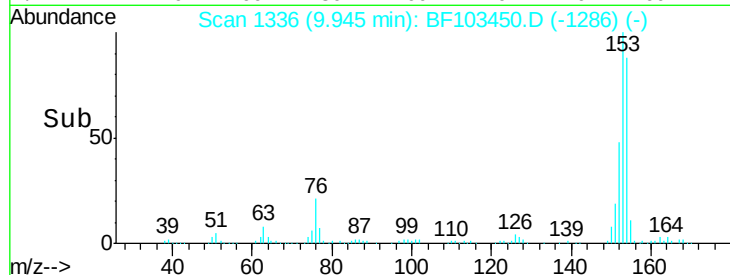
152 54.5 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 5.507 ng

RT: 10.12 min Scan# 1366

Delta R.T. -0.00 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

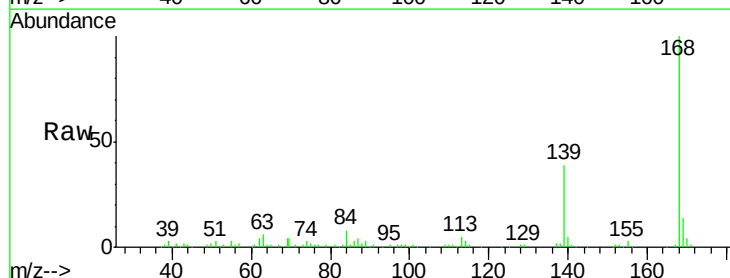
Tgt Ion:168 Resp: 99382

Ion Ratio Lower Upper

168 100

139 39.2 30.1 45.1

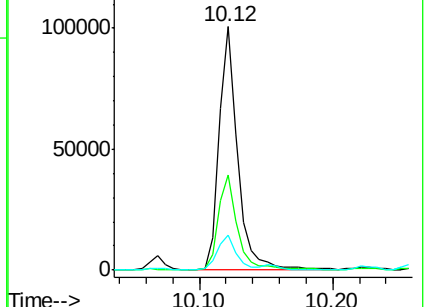
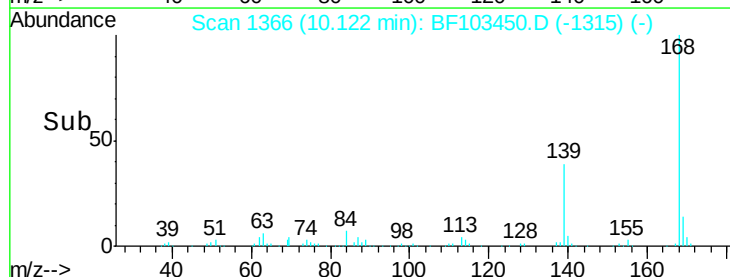
169 14.1 10.9 16.3

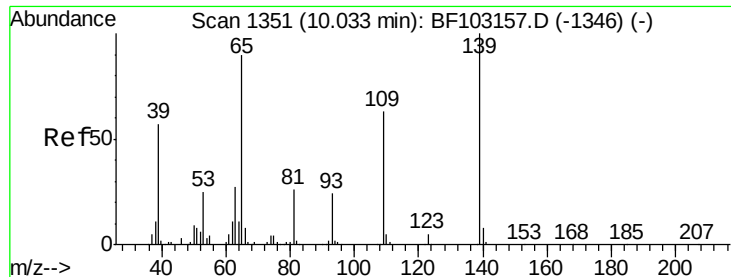


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

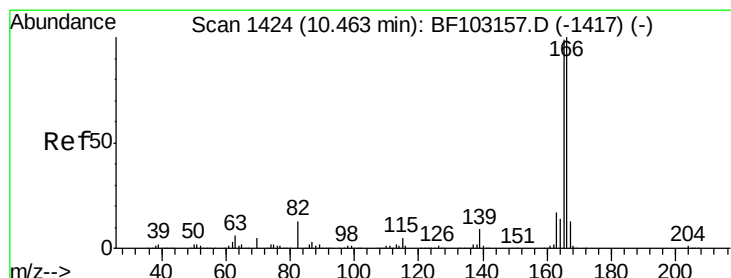
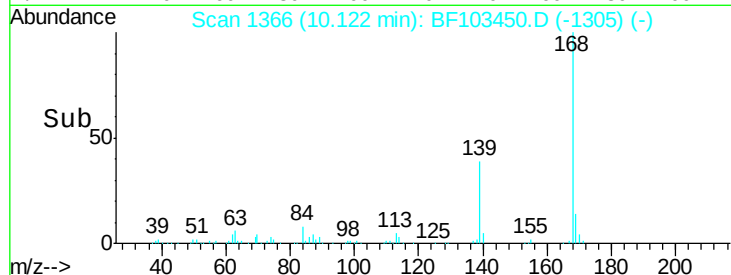
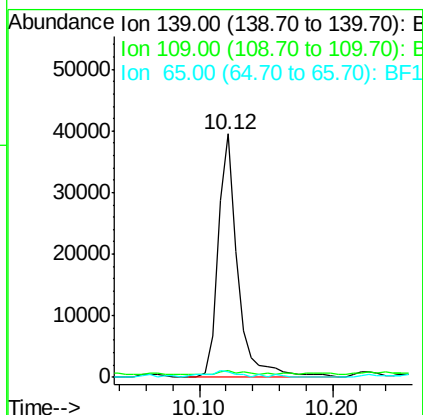
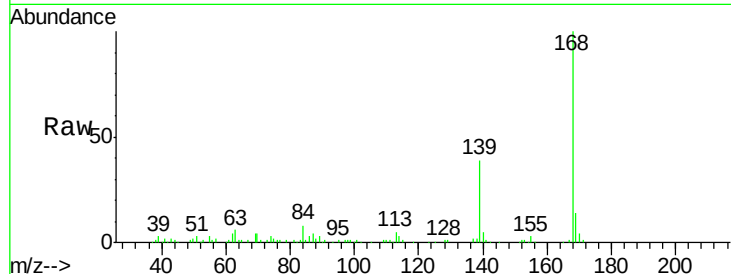




#55  
4-Nitrophenol  
Concen: 13.981 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. 0.06 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

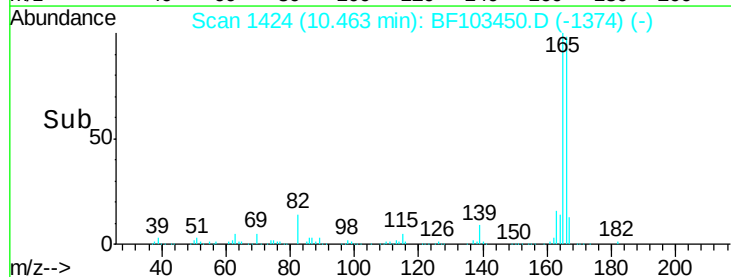
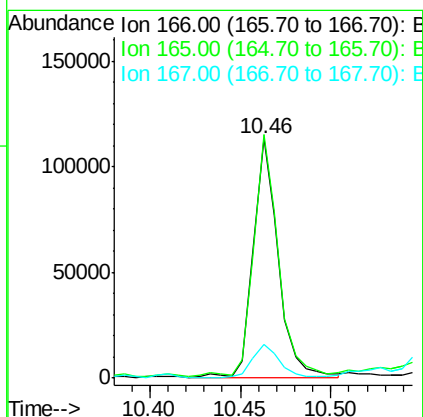
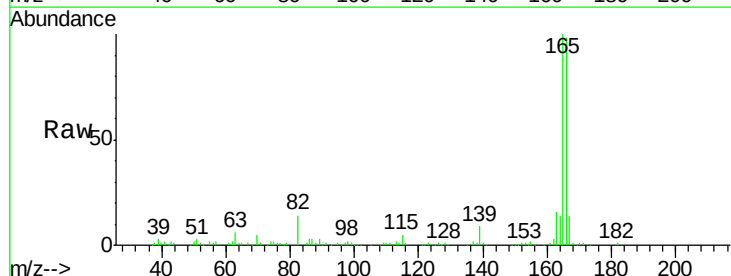
Instrument :  
BNA\_F  
ClientSampleId :

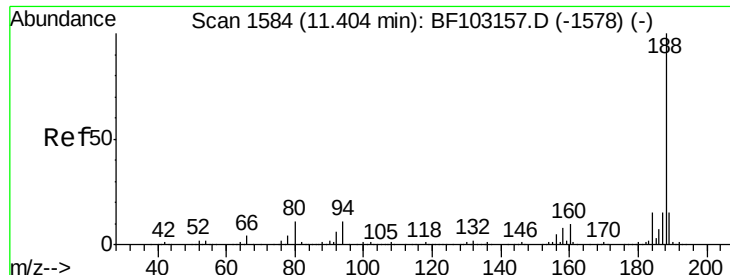
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 2.5   | 48.4  | 88.4#  |
| 65      | 2.2   | 72.6  | 112.6# |



#57  
Fluorene  
Concen: 7.008 ng  
RT: 10.46 min Scan# 1424  
Delta R.T. -0.01 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.7 | 79.8  | 119.8 |
| 167     | 14.3  | 10.6  | 16.0  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

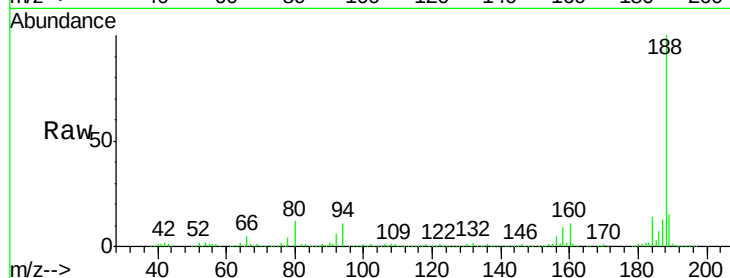
Tot Ion:188 Resp: 331480

Ion Ratio Lower Upper

188 100

94 10.7 8.5 12.7

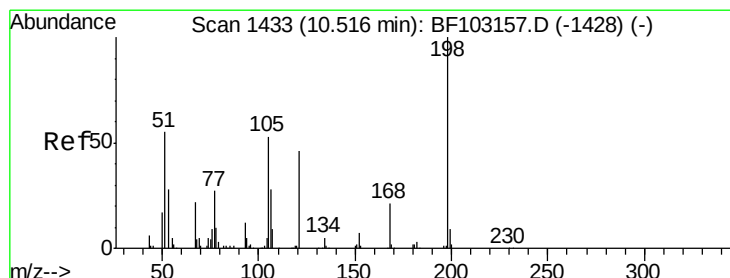
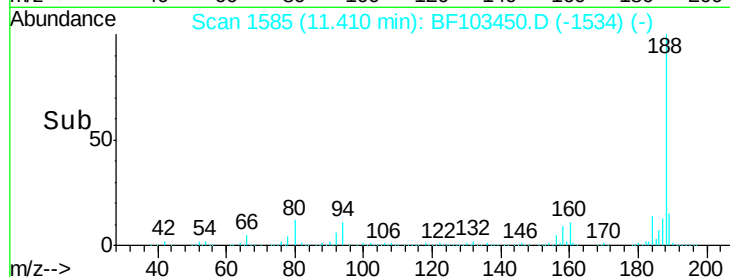
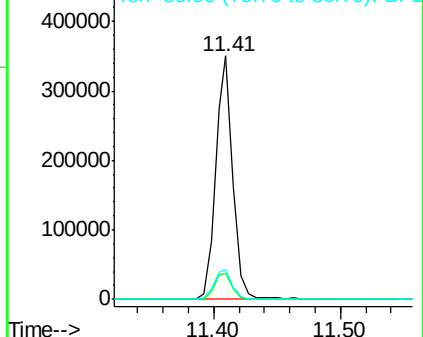
80 12.2 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#64

4,6-Dinitro-2-methylphenol

Concen: 5.050 ng

RT: 10.70 min Scan# 1465

Delta R.T. 0.17 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

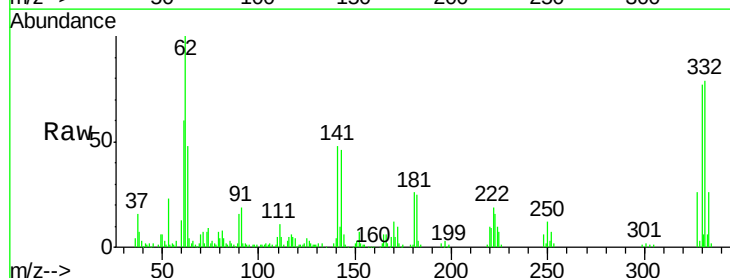
Tgt Ion:198 Resp: 236

Ion Ratio Lower Upper

198 100

51 725.6 37.7 77.7#

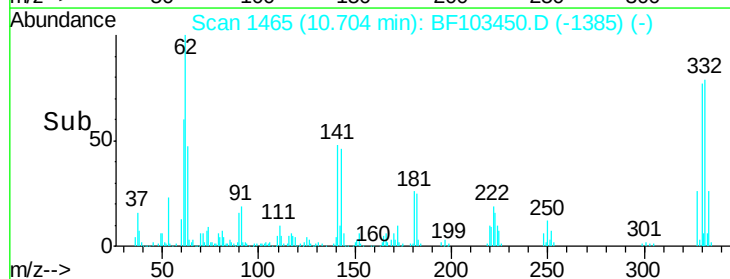
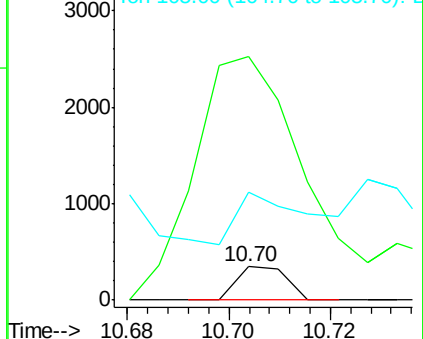
105 321.6 36.3 76.3#

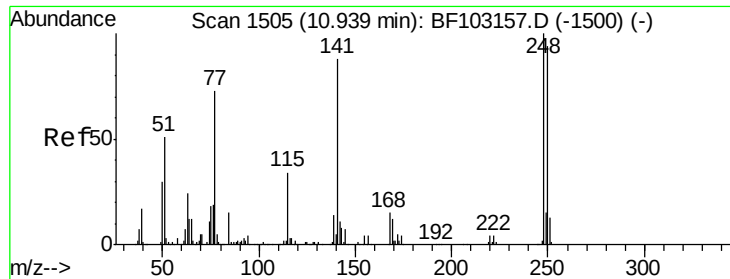


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

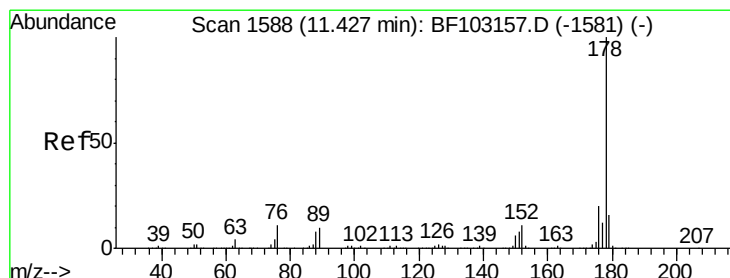
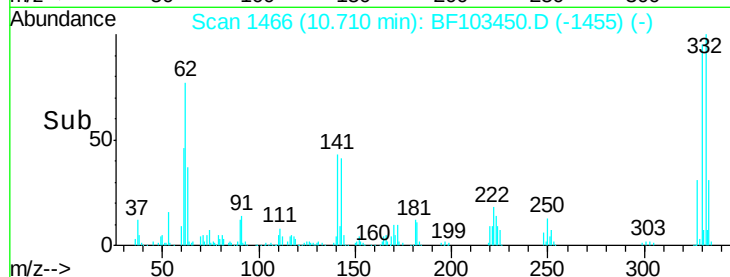
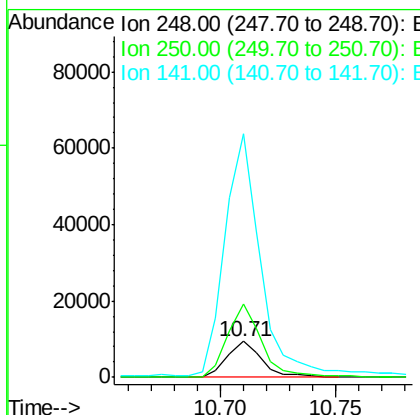
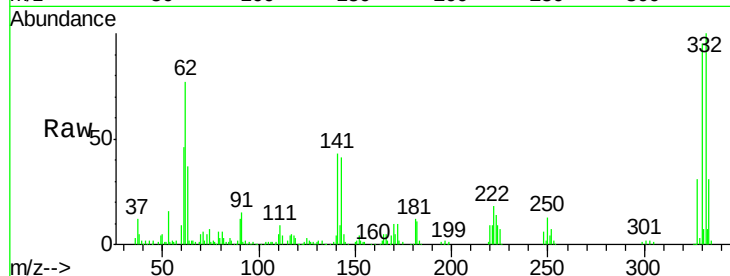




#66  
 4-Bromophenyl-phenylether  
 Concen: 2.831 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.24 min  
 Lab File: BF103450.D  
 Acq: 6 Mar 2018 12:43

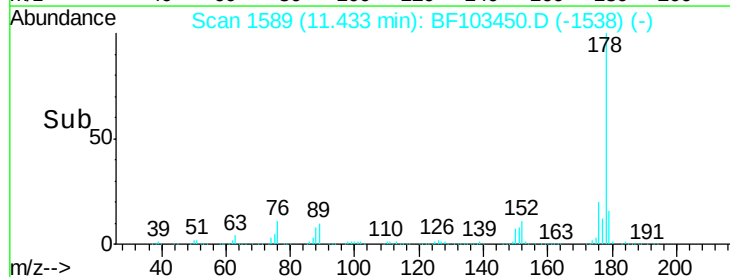
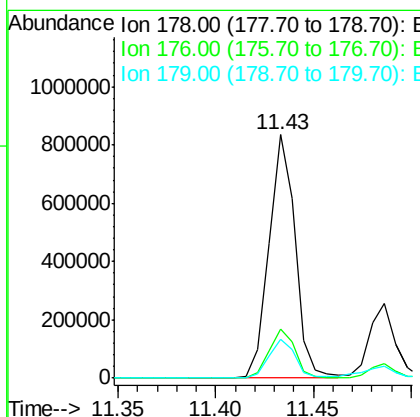
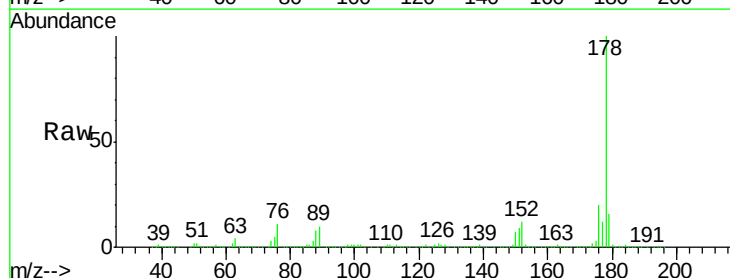
Instrument :  
 BNA\_F  
 ClientSampleId :

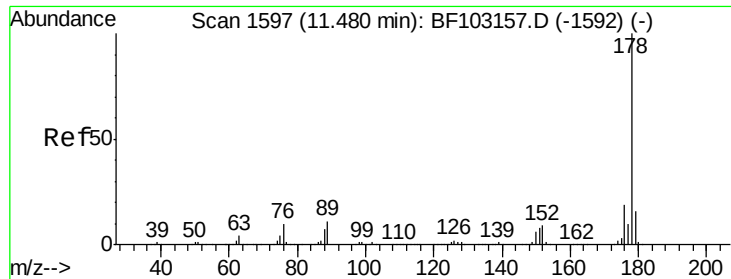
Tot Ion:248 Resp: 9776  
 Ion Ratio Lower Upper  
 248 100  
 250 207.2 76.9 115.3#  
 141 682.4 74.4 111.6#



#70  
 Phenanthrene  
 Concen: 42.702 ng  
 RT: 11.43 min Scan# 1589  
 Delta R.T. -0.00 min  
 Lab File: BF103450.D  
 Acq: 6 Mar 2018 12:43

Tgt Ion:178 Resp: 778977  
 Ion Ratio Lower Upper  
 178 100  
 176 20.4 15.8 23.8  
 179 16.0 13.0 19.6

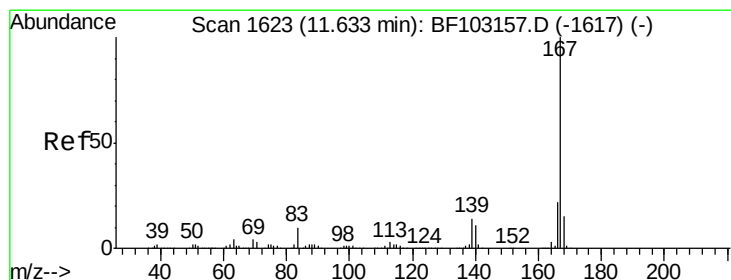
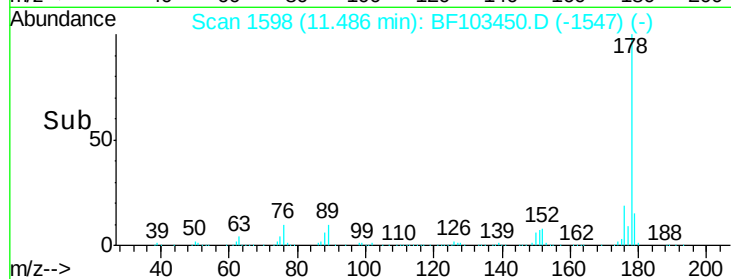
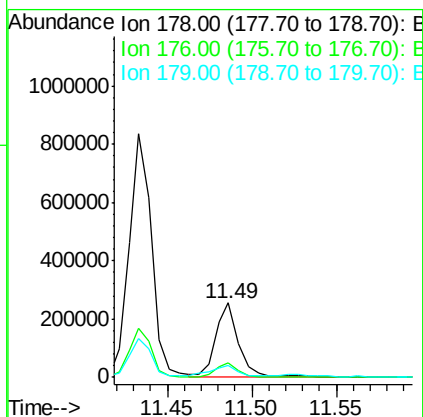
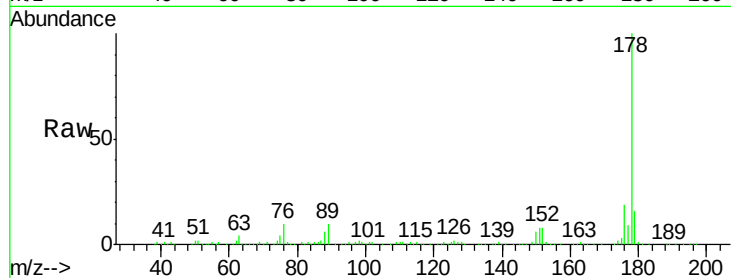




#71  
 Anthracene  
 Concen: 12.988 ng  
 RT: 11.49 min Scan# 1598  
 Delta R.T. -0.00 min  
 Lab File: BF103450.D  
 Acq: 6 Mar 2018 12:43

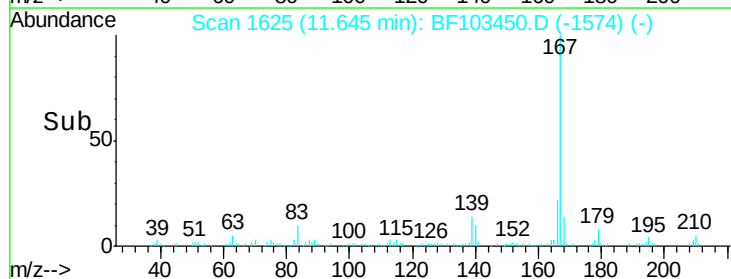
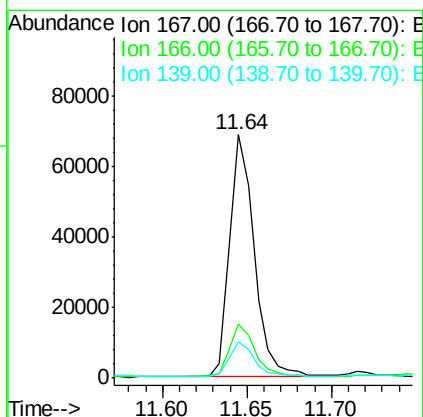
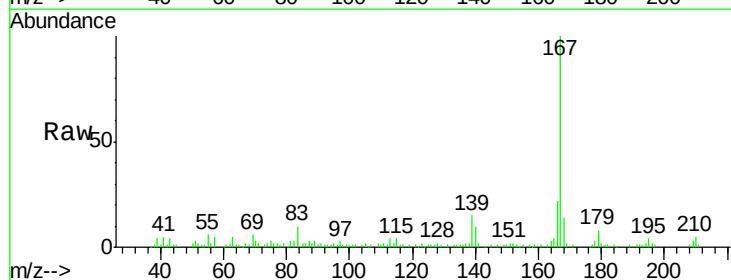
Instrument :  
 BNA\_F  
 ClientSampleId :

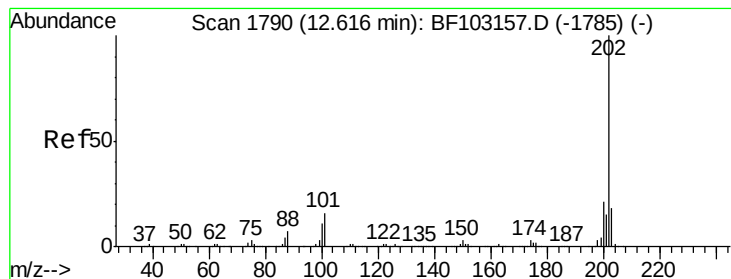
Tot Ion:178 Resp: 242953  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.4 23.2  
 179 15.6 12.6 19.0



#72  
 Carbazole  
 Concen: 3.771 ng  
 RT: 11.64 min Scan# 1625  
 Delta R.T. -0.00 min  
 Lab File: BF103450.D  
 Acq: 6 Mar 2018 12:43

Tgt Ion:167 Resp: 70247  
 Ion Ratio Lower Upper  
 167 100  
 166 22.3 17.6 26.4  
 139 14.7 10.9 16.3





#74

Fluoranthene

Concen: 42.866 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

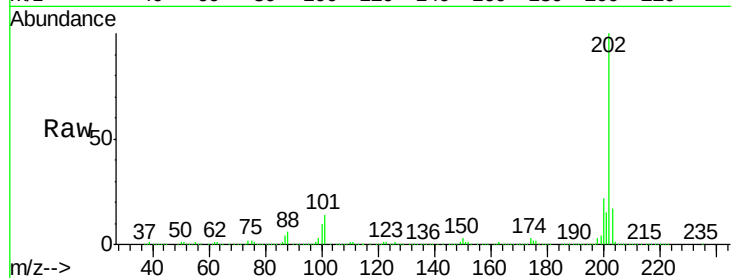
Tot Ion:202 Resp: 785799

Ion Ratio Lower Upper

202 100

101 13.7 0.0 34.1

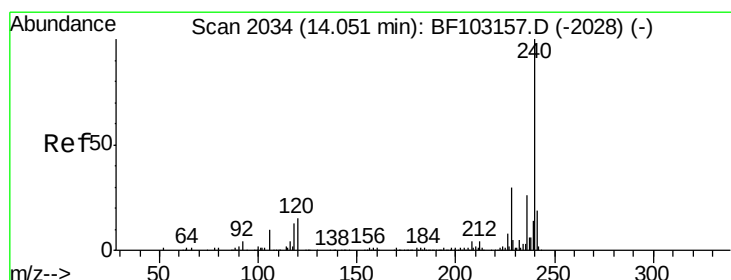
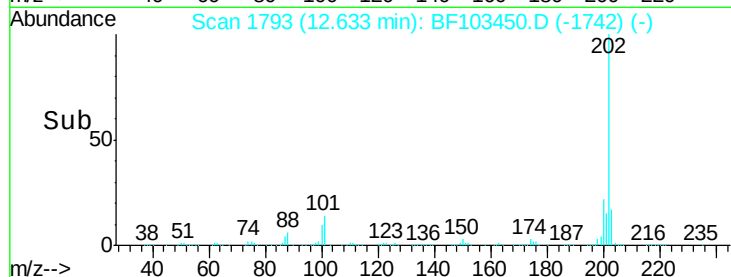
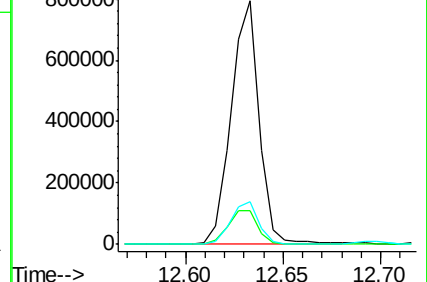
203 17.3 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.00 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

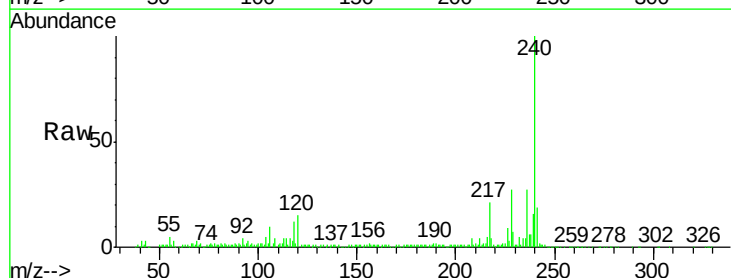
Tgt Ion:240 Resp: 212875

Ion Ratio Lower Upper

240 100

120 14.9 9.5 14.3#

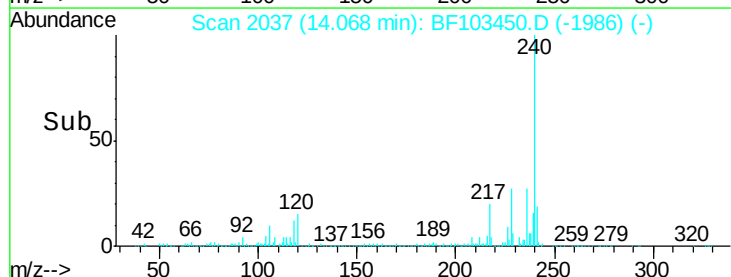
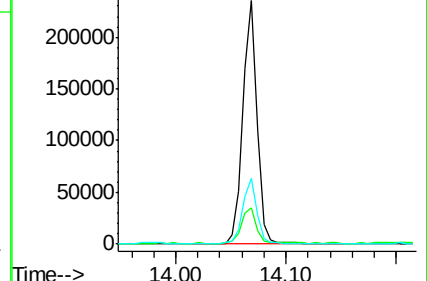
236 26.9 20.7 31.1

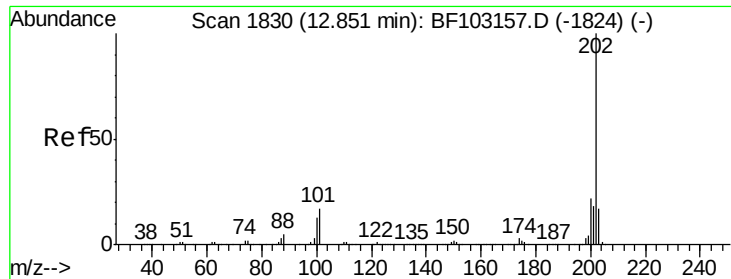


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

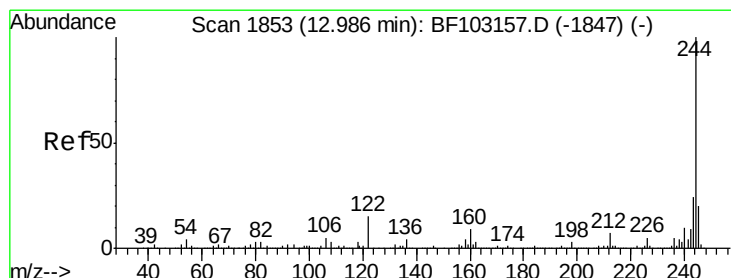
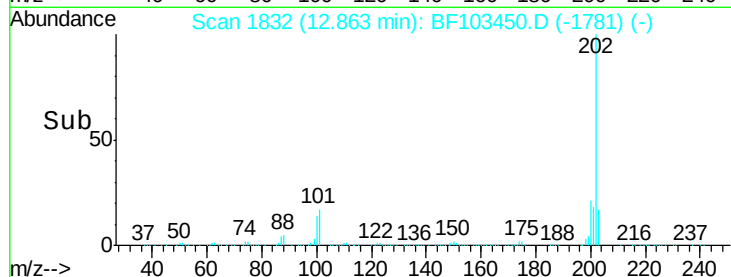
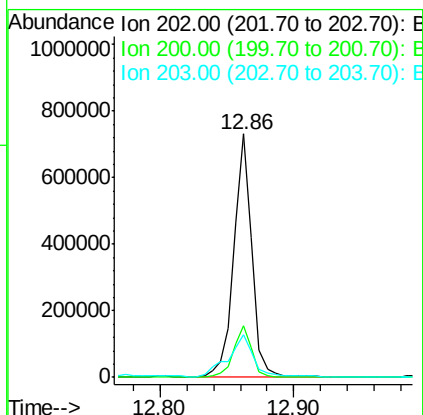
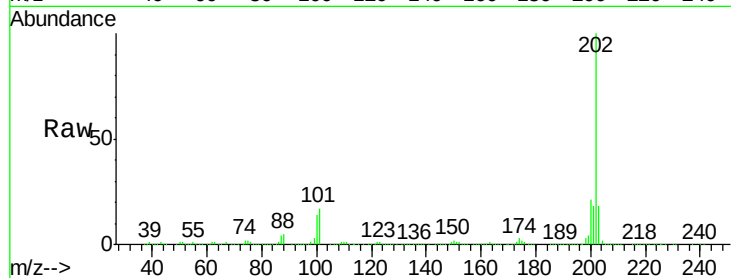




#77  
Pvrene  
Concen: 41.997 ng  
RT: 12.86 min Scan# 1832  
Delta R.T. -0.00 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

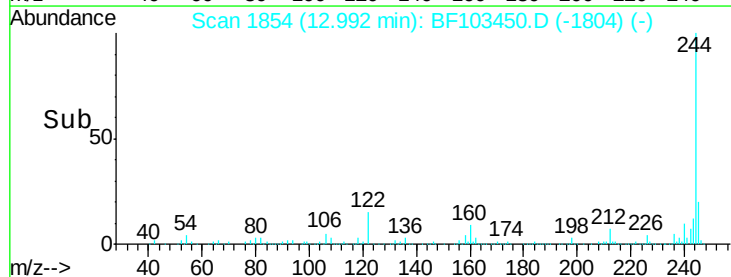
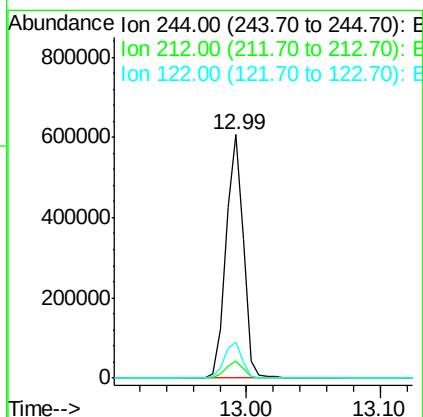
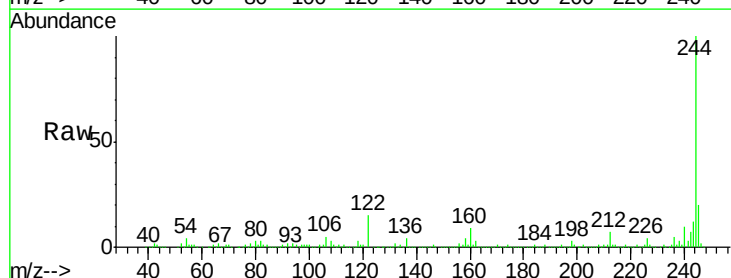
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:202 Resp: 697022  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.4 26.2  
203 17.6 14.3 21.5

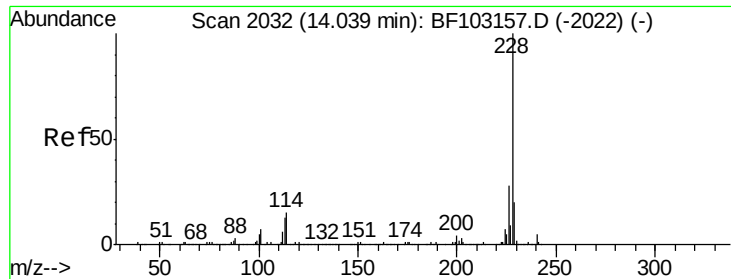


#78  
Terphenyl-d14  
Concen: 62.799 ng  
RT: 12.99 min Scan# 1854  
Delta R.T. -0.01 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

Tgt Ion:244 Resp: 556120  
Ion Ratio Lower Upper  
244 100  
212 7.1 5.4 8.0  
122 15.0 11.0 16.4







#80

Benzo(a)anthracene

Concen: 26.720 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.00 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

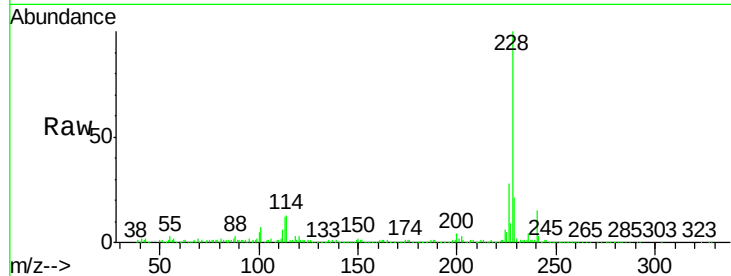
Tot Ion:228 Resp: 369059

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

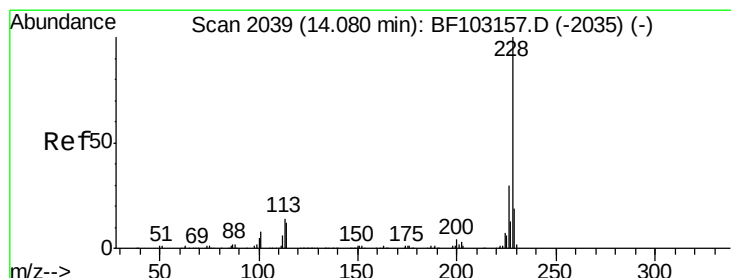
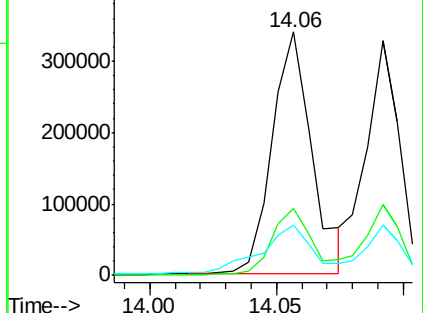
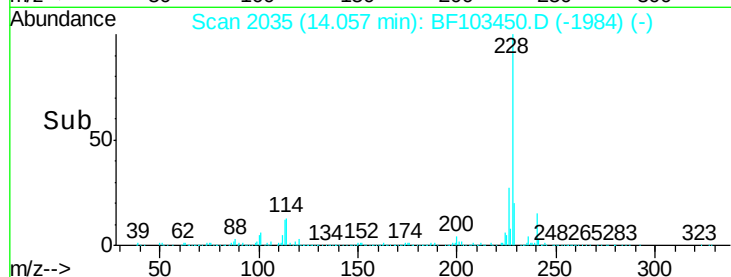
229 20.6 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 22.693 ng

RT: 14.09 min Scan# 2041

Delta R.T. -0.01 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

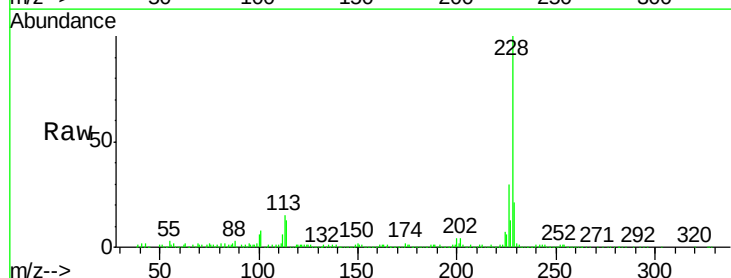
Tgt Ion:228 Resp: 304345

Ion Ratio Lower Upper

228 100

226 30.2 25.0 37.6

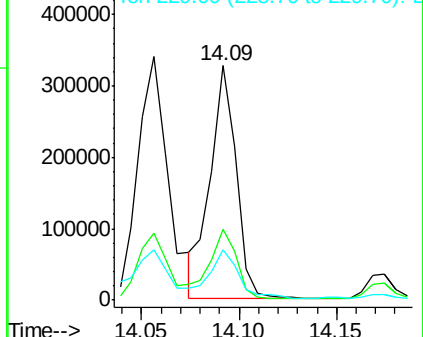
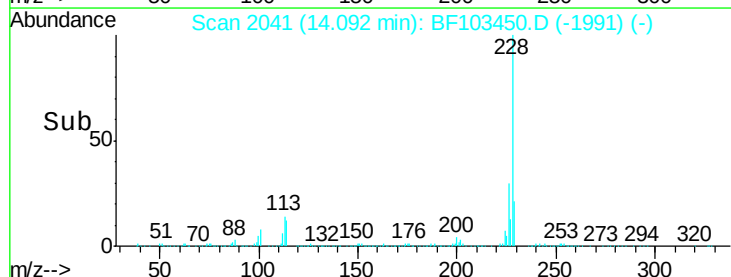
229 21.5 16.2 24.4

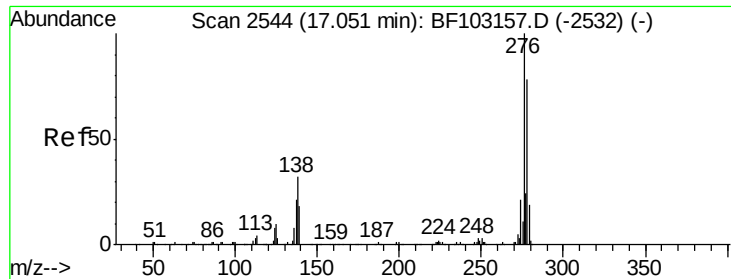


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

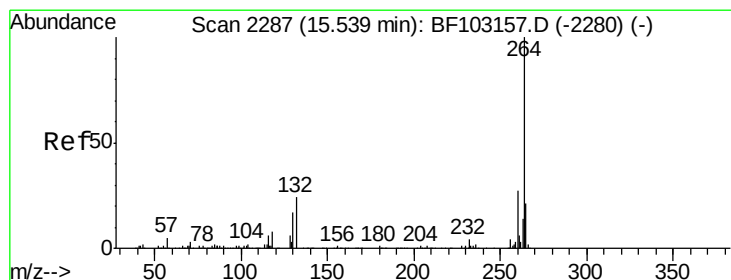
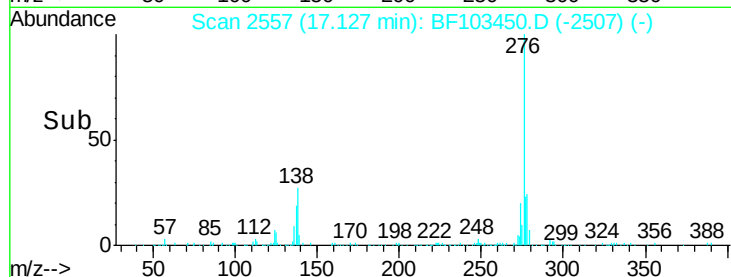
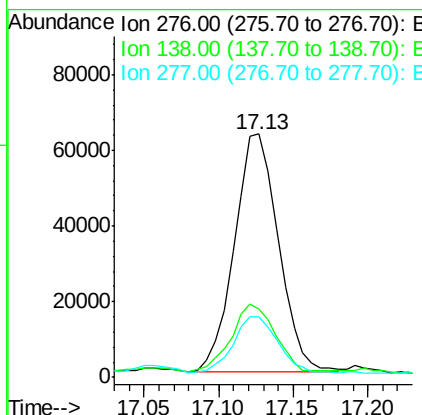
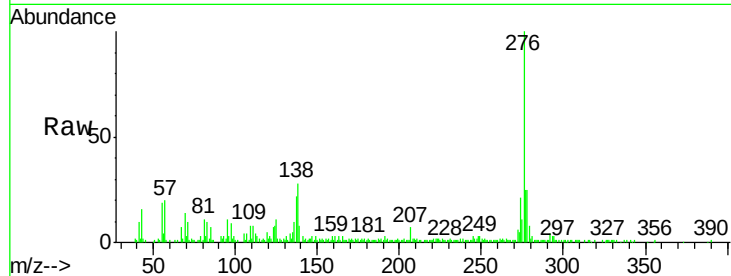




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 12.227 ng  
 RT: 17.13 min Scan# 2557  
 Delta R.T. -0.01 min  
 Lab File: BF103450.D  
 Acq: 6 Mar 2018 12:43

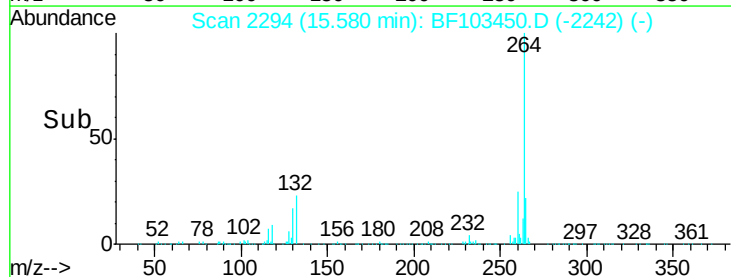
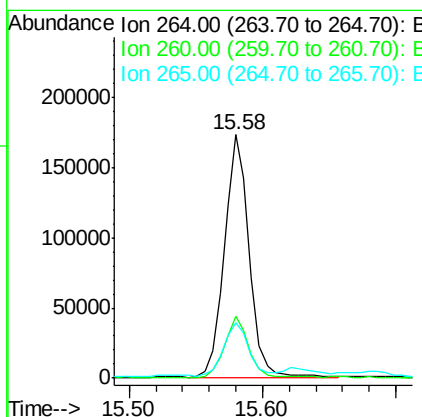
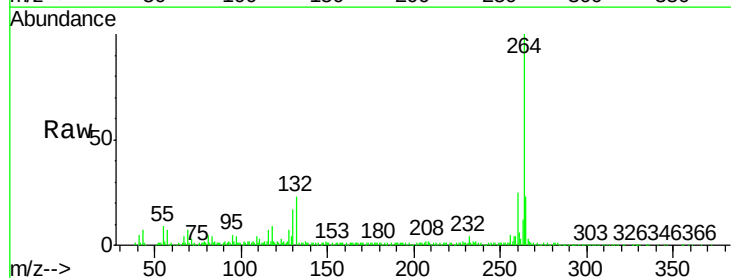
Instrument :  
 BNA\_F  
 ClientSampleId :

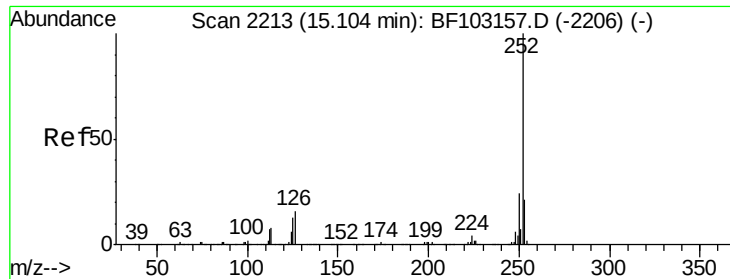
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.2  | 25.0  | 37.6  |
| 277     | 24.5  | 20.1  | 30.1  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.58 min Scan# 2294  
 Delta R.T. 0.01 min  
 Lab File: BF103450.D  
 Acq: 6 Mar 2018 12:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.2  | 19.2  | 28.8  |
| 265     | 22.7  | 17.5  | 26.3  |

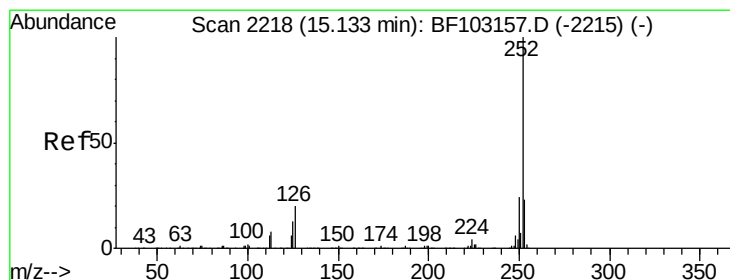
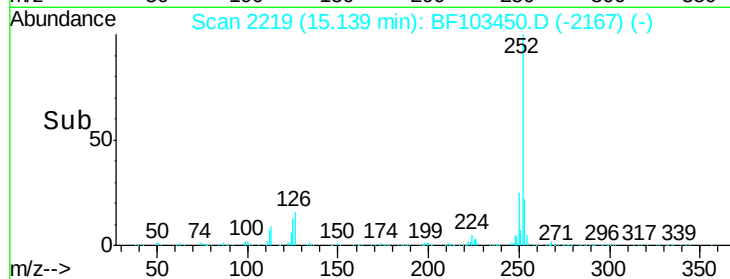
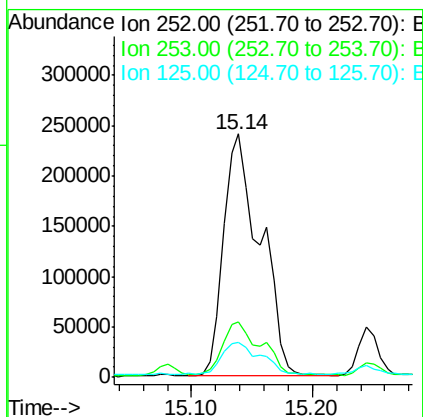
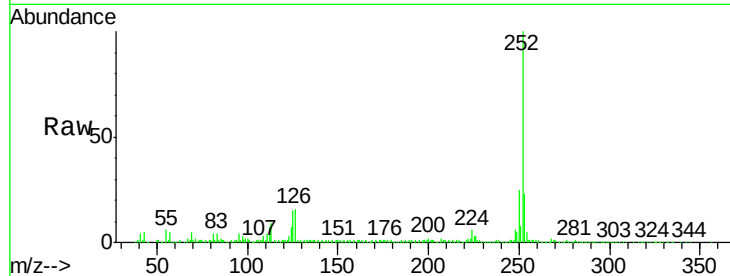




#87  
Benzo(b)fluoranthene  
Concen: 34.455 ng  
RT: 15.14 min Scan# 2219  
Delta R.T. 0.01 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

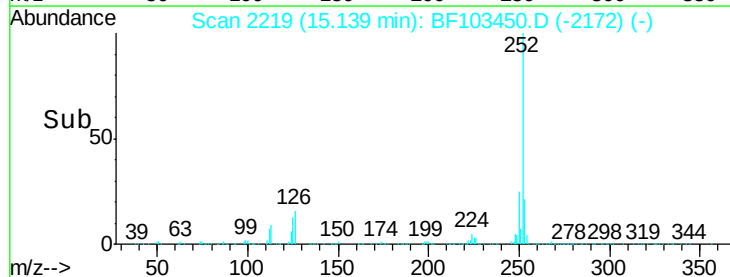
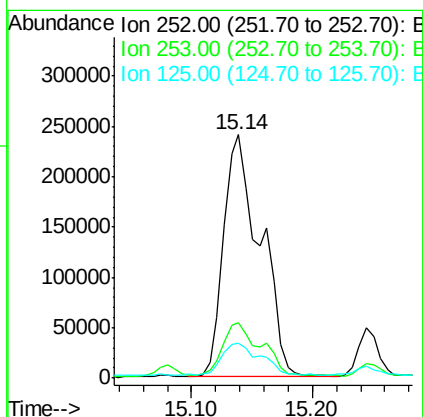
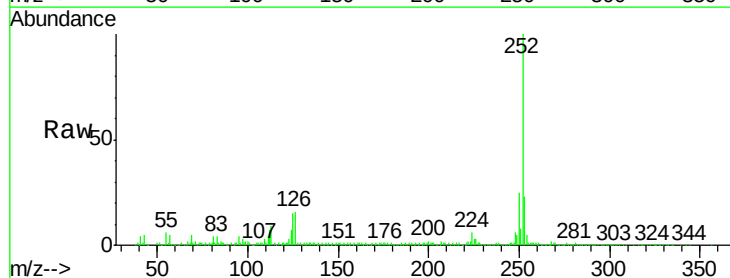
Instrument :  
BNA\_F  
ClientSampleId :

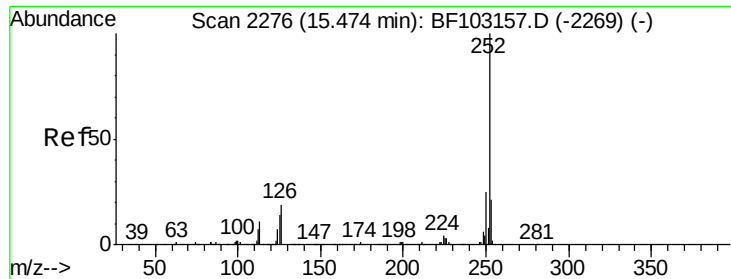
Tot Ion:252 Resp: 507711  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.0 25.6  
125 14.6 9.0 13.6#



#88  
Benzo(k)fluoranthene  
Concen: 36.590 ng  
RT: 15.14 min Scan# 2219  
Delta R.T. -0.02 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

Tgt Ion:252 Resp: 507711  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.9 26.9  
125 14.6 10.2 15.2

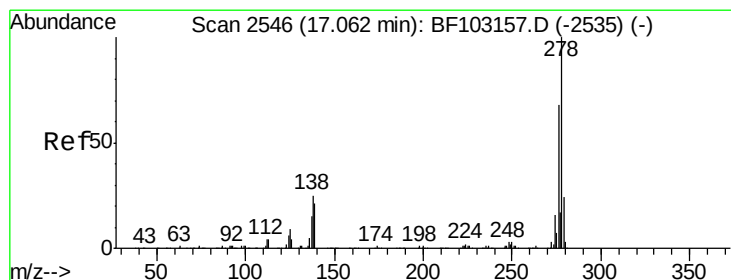
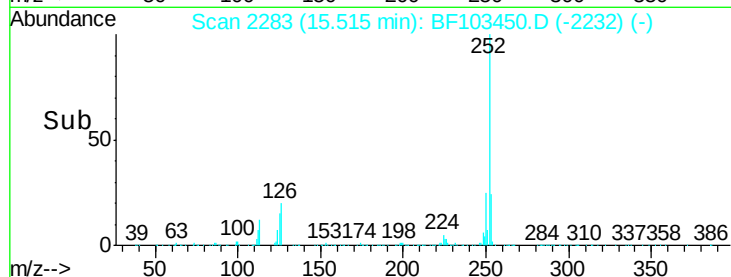
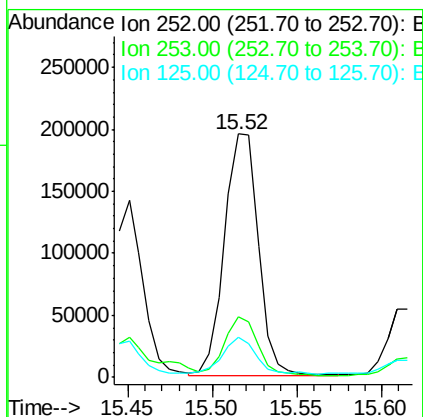
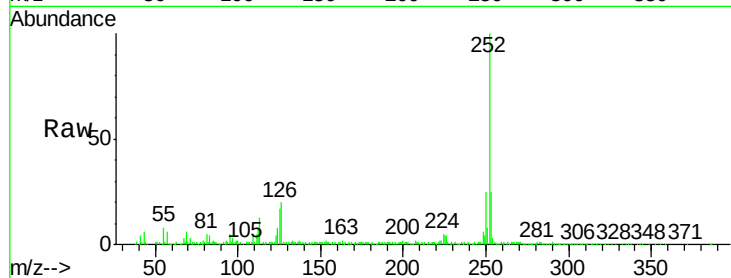




#89  
Benzo(a)pyrene  
Concen: 20.854 ng  
RT: 15.52 min Scan# 2283  
Delta R.T. -0.00 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

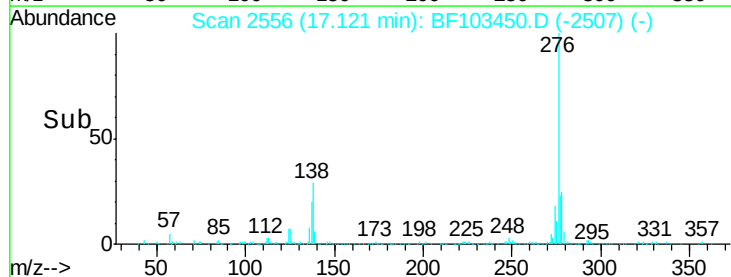
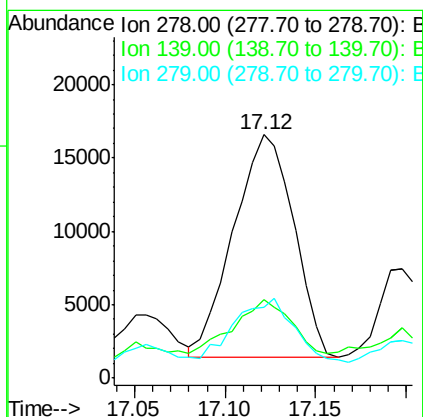
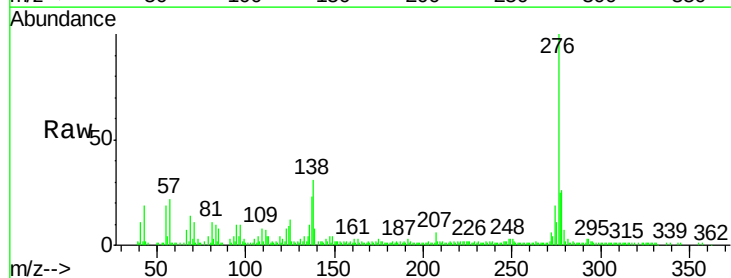
Instrument :  
BNA\_F  
ClientSampleId :

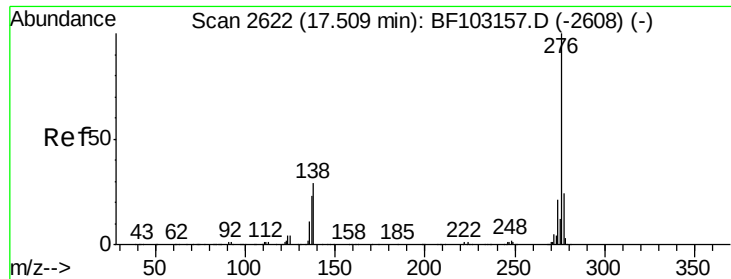
Tot Ion:252 Resp: 274418  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.1 25.7  
125 16.7 9.8 14.6#



#90  
Dibenzo(a,h)anthracene  
Concen: 3.442 ng  
RT: 17.12 min Scan# 2556  
Delta R.T. -0.01 min  
Lab File: BF103450.D  
Acq: 6 Mar 2018 12:43

Tgt Ion:278 Resp: 35000  
Ion Ratio Lower Upper  
278 100  
139 32.2 15.9 23.9#  
279 28.8 19.0 28.4#





#91

Benzo(a,h,i)perylene

Concen: 11.522 ng

RT: 17.60 min Scan# 2637

Delta R.T. -0.00 min

Lab File: BF103450.D

Acq: 6 Mar 2018 12:43

Instrument :

BNA\_F

ClientSampleId :

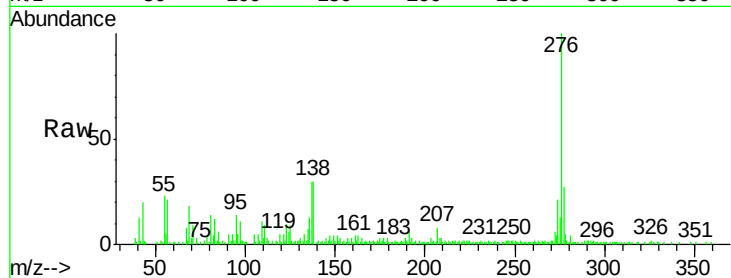
Tot Ion:276 Resp: 114496

Ion Ratio Lower Upper

276 100

277 26.8 17.9 26.9

138 29.9 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

